

# Target Analysis and Warfare Assessment

NAVAL SEA SYSTEMS COMMAND



NAVAL SURFACE WARFARE CENTER



DAHLGREN DIVISION

## Mission

Support the customer with quality weapons effectiveness and warfare assessment products.

## Today's Challenges

- Determining the best weapon options
- Developing effective aimpoints
- Sensing weapon effects and target response
- Verifying achievement of strategic and tactical objectives
- Minimizing collateral damage
- Ensuring the protection of our forces

## Overview

The Target Analysis and Warfare Assessment Cell (JC10) develops methodologies and uses physics-based models to weaponize targets, predict collateral effects, and assess resulting impacts. Using these techniques, JC10 accomplishes its mission and strives to meet today's warfighting challenges.

Beyond pre-strike weaponizing and collateral damage predictions, JC10 supports warfighters by providing a full spectrum of sensor employment options for post-strike assessments. NSWCDD conducts extensive field testing to identify, verify, and validate sensor employment options for battle damage assessment (BDA).

In supporting force protection, analysts use NSWCDD-developed models to predict hazards to U.S. and coalition forces. These models help analysts to identify vulnerabilities surrounding military facilities and assist in determining what preventative measures would be most effective.

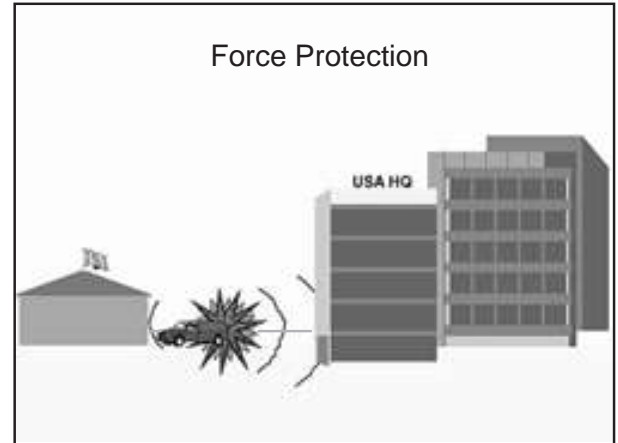
JC10 also automates targeting and weapons effects processes. To do this, JC10 employs computer scientists and engineers who work alongside targeting, weaponizing, and BDA analysts. Working together, the JC10 team quickly transforms real-world requirements into meaningful systems engineering, analysis, and tools.

## Areas of Expertise

- Weapons Effects
- Weaponizing
- Collateral Damage
- Force Protection Support
- Battle Damage Assessment
- Sensor Applications
- Automated Systems Development

## Products and Services

- Pre-Strike Weaponizing & BDA Analyses
- Target Computer Models
- Collateral Damage Predictions & Assessments
- Blast, Fragmentation, & Penetration Analyses
- Effectiveness Indices Development
- Aimpoint Analyses
- Pre-Strike Intelligence Collection Strategies
- BDA Indicators & Monitoring Points
- Response Options Development
- Notional Weapon Requirements
- 3D Computer Visualization Tools



## Customers

- Defense Intelligence Agency
- Joint Warfare Analysis Center
- Defense Special Weapons Agency
- Joint Technical Coordinating Group-Munitions Effectiveness
- Joint Program Office-Special Technology Countermeasures
- Other Government Agencies



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